FIG. 1

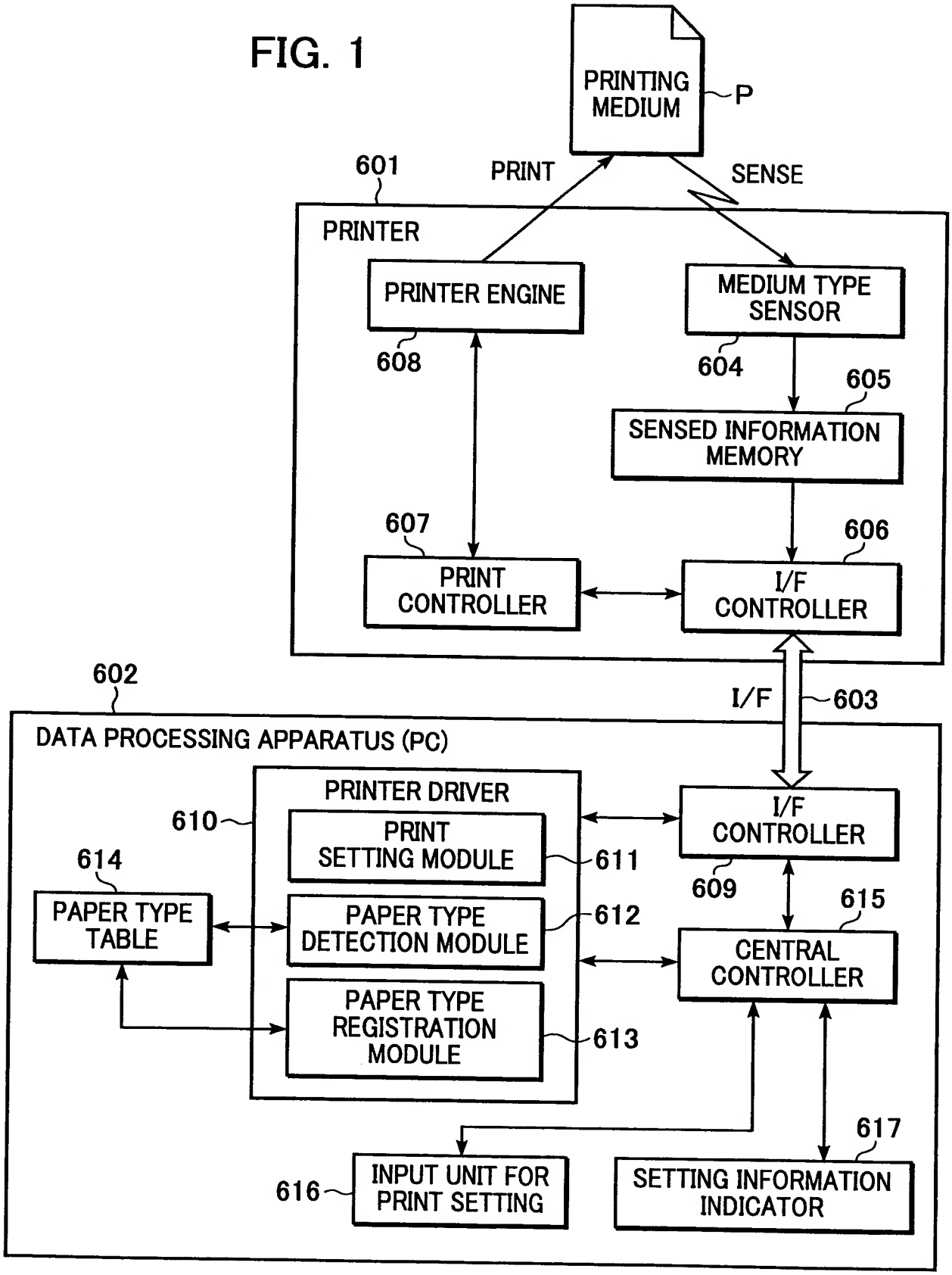

PRINTING MEDIUM
P
601
PRINT
SENSE
PRINTER
PRINTER ENGINE
MEDIUM TYPE SENSOR
608
604
605
SENSED INFORMATION MEMORY
607
606
PRINT CONTROLLER
I/F CONTROLLER
602
I/F
603
DATA PROCESSING APPARATUS (PC)
PRINTER DRIVER
610
PRINT SETTING MODULE
611
I/F CONTROLLER
614
609
615
PAPER TYPE TABLE
PAPER TYPE DETECTION MODULE
612
CENTRAL CONTROLLER
PAPER TYPE REGISTRATION MODULE
613
617
616
INPUT UNIT FOR PRINT SETTING
SETTING INFORMATION INDICATOR

FIG. 2

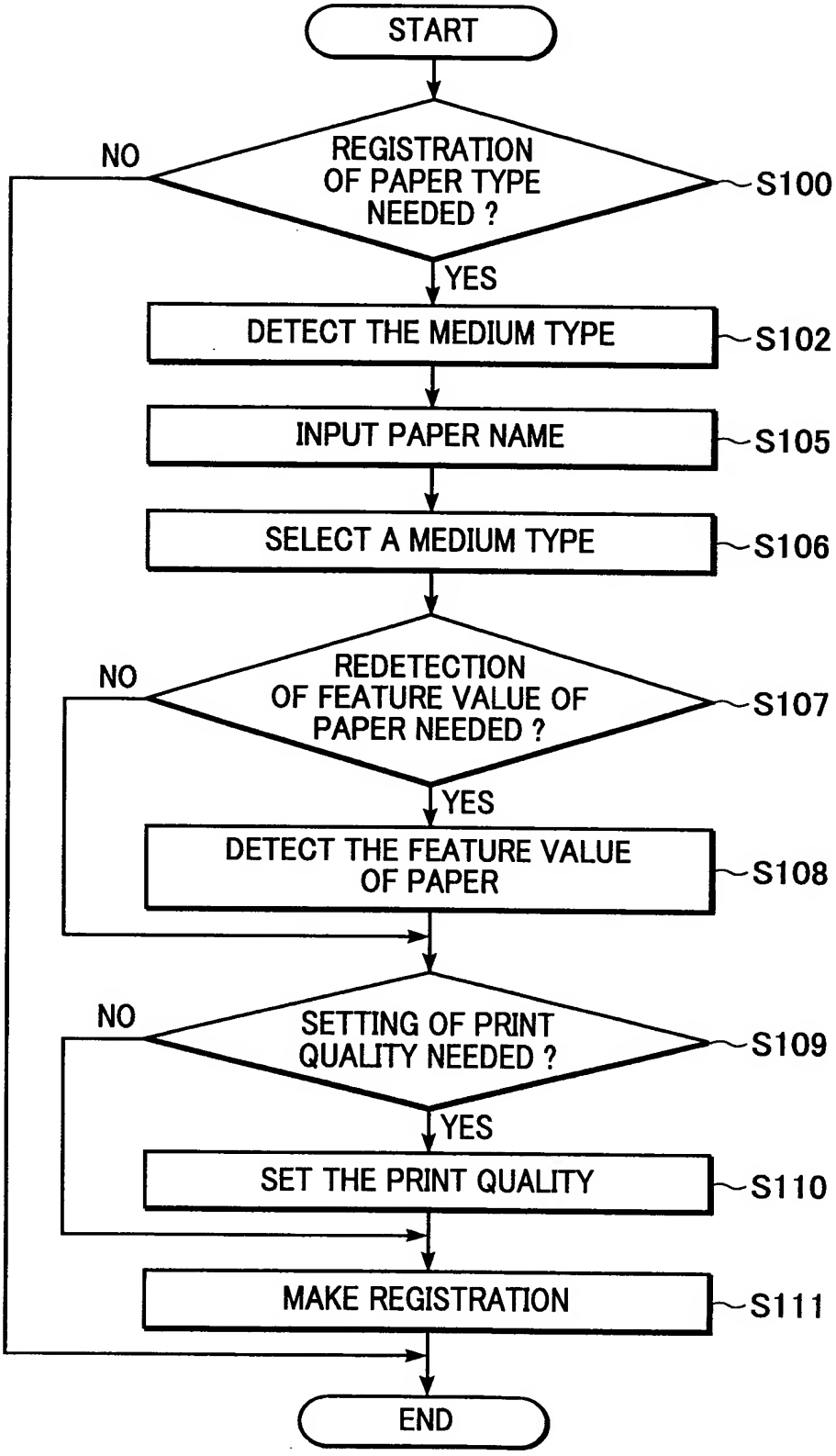

START
REGISTRATION OF PAPER TYPE NEEDED ?
NO
YES
S100
DETECT THE MEDIUM TYPE
S102
INPUT PAPER NAME
S105
SELECT A MEDIUM TYPE
S106
REDETECTION OF FEATURE VALUE OF PAPER NEEDED ?
NO
YES
S107
DETECT THE FEATURE VALUE OF PAPER
S108
SETTING OF PRINT QUALITY NEEDED ?
NO
YES
S109
SET THE PRINT QUALITY
S110
MAKE REGISTRATION
S111
END

FIG. 3

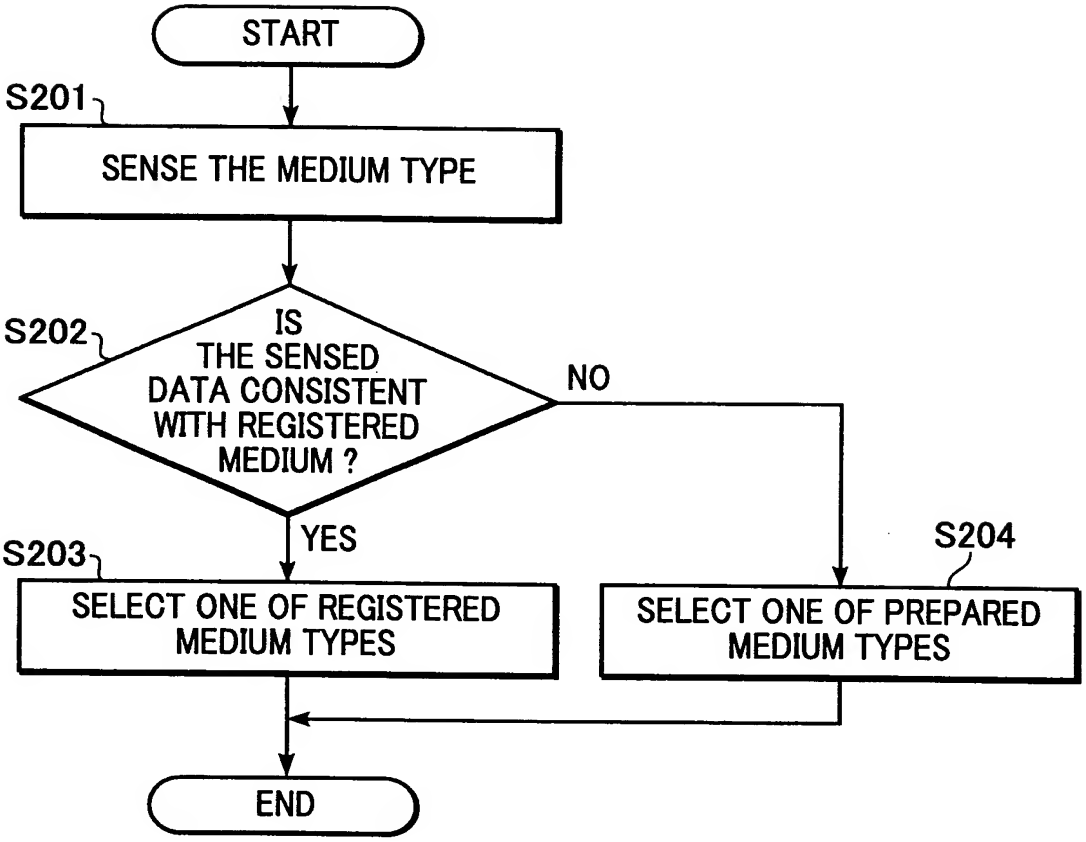

START
S201
SENSE THE MEDIUM TYPE
S202
IS THE SENSED DATA CONSISTENT WITH REGISTERED MEDIUM ?
NO
YES
S203
SELECT ONE OF REGISTERED MEDIUM TYPES
S204
SELECT ONE OF PREPARED MEDIUM TYPES
END

FIG. 4

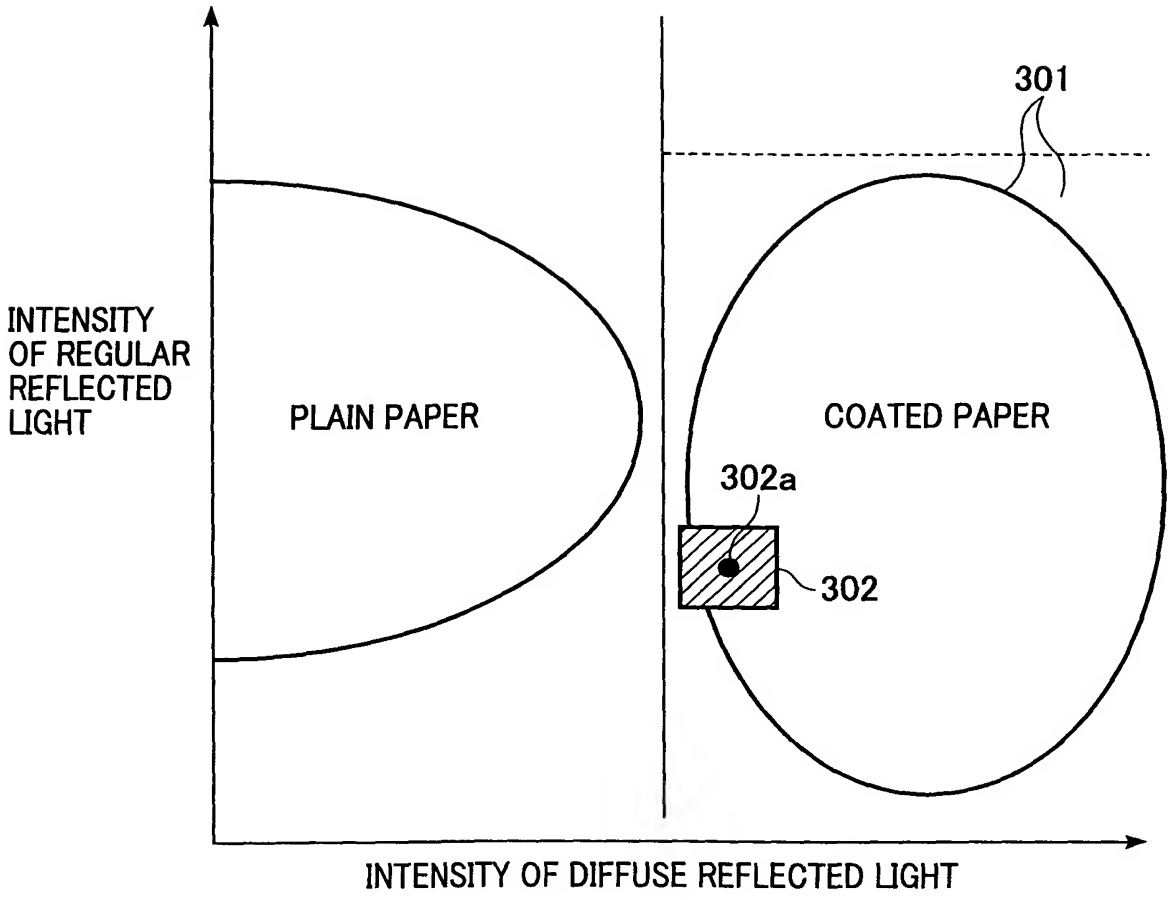

INTENSITY OF REGULAR REFLECTED LIGHT
PLAIN PAPER
COATED PAPER
301
302a
302
INTENSITY OF DIFFUSE REFLECTED LIGHT

FIG. 5

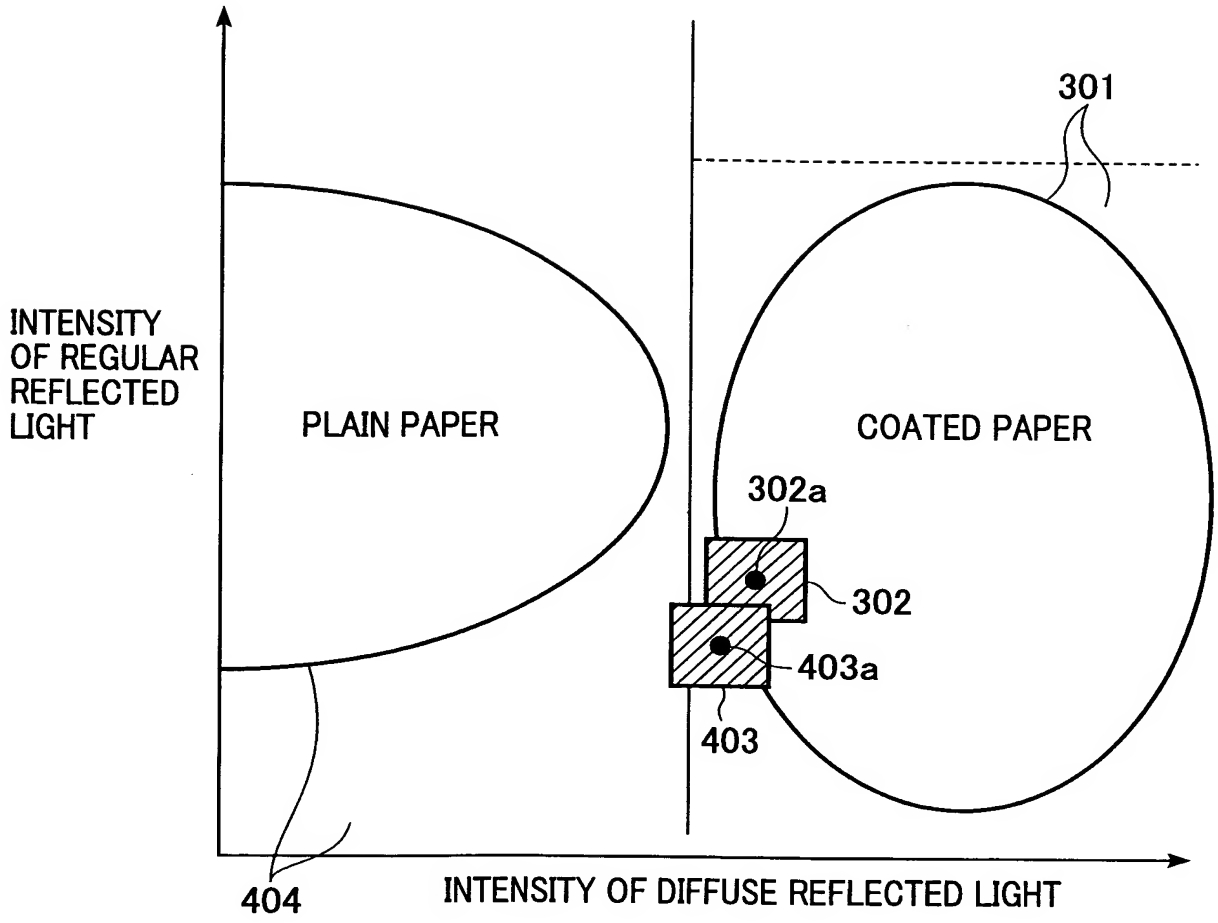
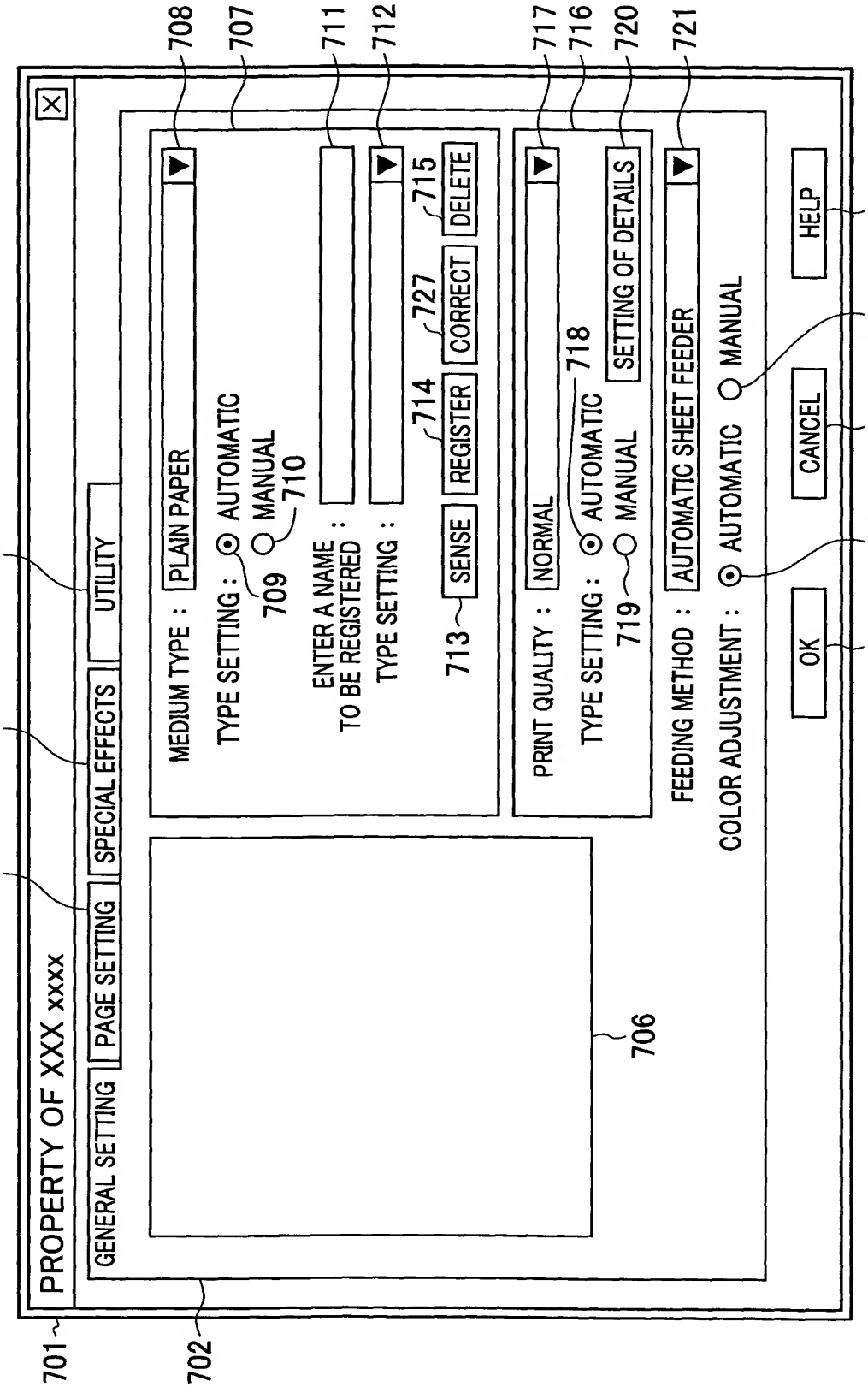

INTENSITY OF REGULAR REFLECTED LIGHT
PLAIN PAPER
COATED PAPER
301
302a
302
403a
403
404
INTENSITY OF DIFFUSE REFLECTED LIGHT

FIG. 6


PROPERTY OF XXX xxxx
GENERAL SETTING
PAGE SETTING
SPECIAL EFFECTS
UTILITY
MEDIUM TYPE :
PLAIN PAPER
TYPE SETTING :
AUTOMATIC
MANUAL
ENTER A NAME TO BE REGISTERED :
TYPE SETTING :
SENSE
REGISTER
CORRECT
DELETE
PRINT QUALITY :
NORMAL
TYPE SETTING :
AUTOMATIC
MANUAL
SETTING OF DETAILS
FEEDING METHOD :
AUTOMATIC SHEET FEEDER
COLOR ADJUSTMENT :
AUTOMATIC
MANUAL
OK
CANCEL
HELP
701
702
703
704
705
706
707
708
709
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727

FIG. 7

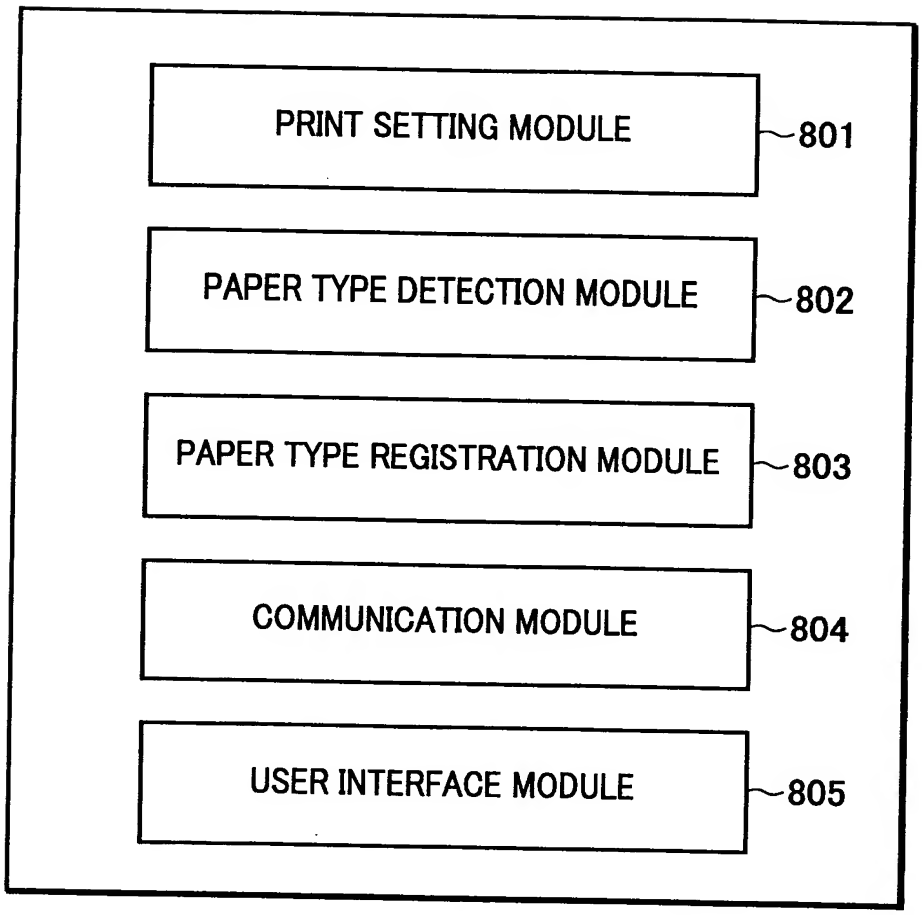

PRINT SETTING MODULE
801
PAPER TYPE DETECTION MODULE
802
PAPER TYPE REGISTRATION MODULE
803
COMMUNICATION MODULE
804
USER INTERFACE MODULE
805

FIG. 8

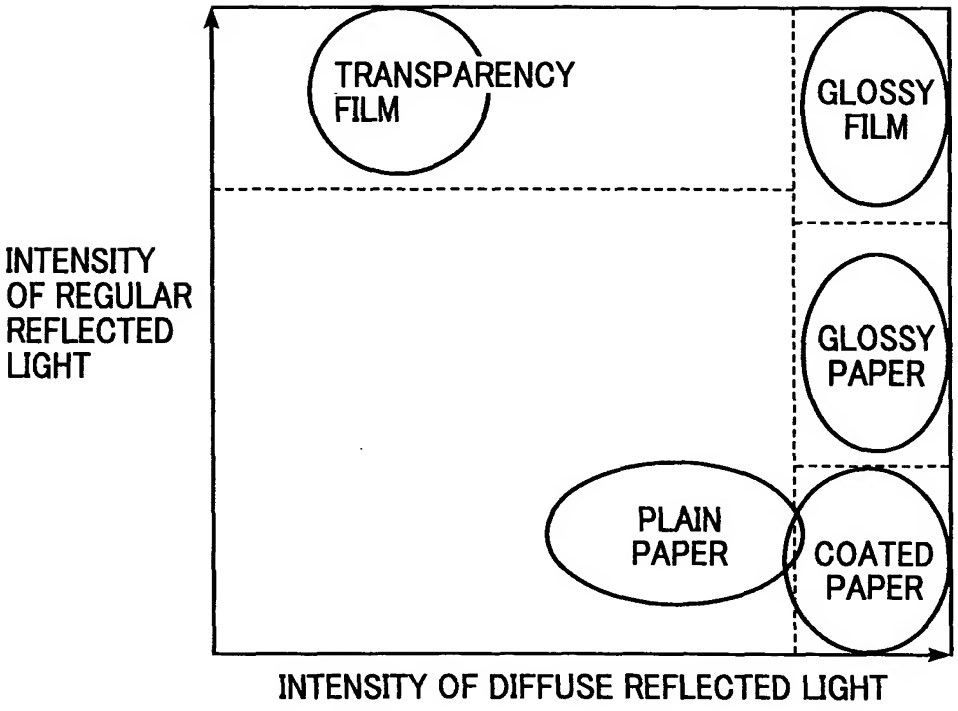
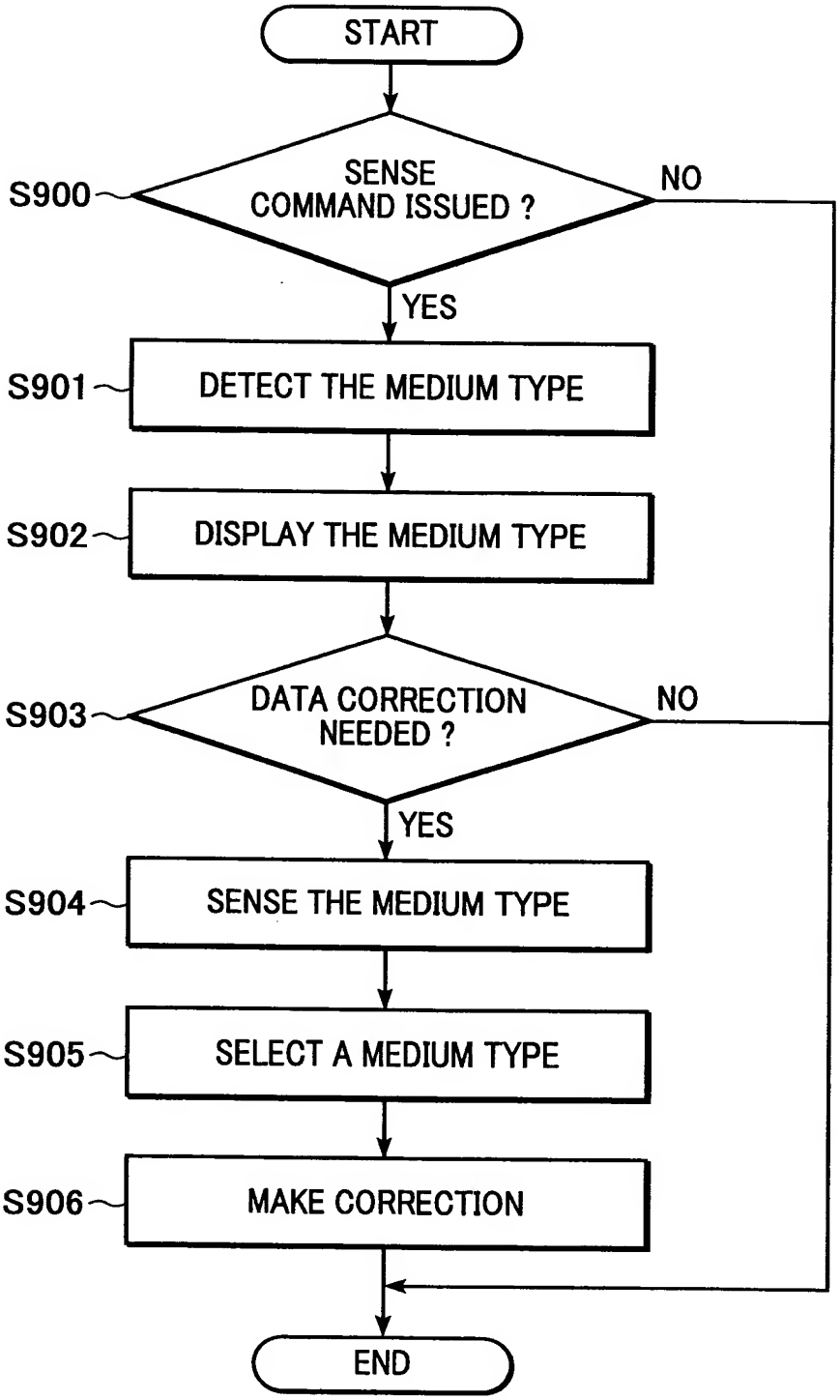

TRANSPARENCY FILM
GLOSSY FILM
GLOSSY PAPER
PLAIN PAPER
COATED PAPER
INTENSITY OF REGULAR REFLECTED LIGHT
INTENSITY OF DIFFUSE REFLECTED LIGHT

FIG. 9


START
S900
SENSE COMMAND ISSUED ?
NO
YES
S901
DETECT THE MEDIUM TYPE
S902
DISPLAY THE MEDIUM TYPE
S903
DATA CORRECTION NEEDED ?
NO
YES
S904
SENSE THE MEDIUM TYPE
S905
SELECT A MEDIUM TYPE
S906
MAKE CORRECTION
END